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**CLAIMS****What is claimed is:**

1. (Original) An audio-video (AV) synchronization process, comprising:

determining whether an occupancy criterion of a buffer storing received audio and video frames has been met, and if so

obtaining an initial time stamp value from an initial frame;

obtaining a subsequent time stamp value from a subsequent frame;

computing an initial parameter based on the initial time stamp value;

computing a subsequent parameter based on the subsequent time stamp value;

determining if the computed initial and subsequent parameters coincide, and if so

outputting corresponding audio and/or video frames for decoding and display.

2. (Original) The process of claim 1, wherein said initial and subsequent time stamp values are presentation time stamps of initial and subsequent video frames or presentation time stamps of initial and subsequent audio frames, each of the audio and video frames also including associated audio or video data.

3. (Original) The process of claim 1, wherein said initial and subsequent parameters are difference values, each computed as a time difference between when the corresponding time stamp is received by a processor and a time where the processor accesses a time from a system timer.

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4. (Original) The process of claim 3, wherein said determining step compares whether the difference value representing the subsequent frame,  $\Delta t_{new}$ , is equal to the difference value representing the initial frame,  $\Delta t_{old}$ , the coincidence between these difference values representing a valid time stamp of the subsequent frame.

5. (Original) The process of claim 4, wherein the video frame is decoded for display when the timestamp is valid.

6. (Original) The process of claim 2, wherein if the initial and subsequent parameters do not coincide, a recovery process is performed.

7. (Original) The process of claim 6, wherein if the initial and subsequent parameters do not coincide because the presentation time stamp of the initial frame is corrupted but the corresponding video data is valid, or if a time base at which all presentation time stamps are obtained is changed, the video frame is decoded for display.

8. (Original) The process of claim 6, wherein, if the initial and subsequent parameters do not coincide because both the presentation time stamp and the corresponding video data of the initial frame are corrupted, the most recently processed video frame is repeated.

9. (Original) The process of claim 6, wherein the recovery process is performed up to T times, T being a selectable parameter, and wherein if T is exceeded, the recovery process is terminated.

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10. (Original) The process of claim 2, wherein if the frames are audio frames, parameters representing a computed time are compared to a system time in order to determine if an audio frame is repeated in the process, skipped in the process, or decoded for display.

11. (Original) The process of claim 10, wherein if computed time exceeds system time by a half of an audio frame time, the audio frame is repeated.

12. (Original) The process of claim 10, wherein if computed time lags system time by a half of an audio frame time, the audio frame is skipped.

13. (Original) The process of claim 10, wherein if computed time exceeds system time by less than half of an audio frame time, or lags system time by less than half an audio frame, the audio frame is decoded for display.

14. (Original) An apparatus for synchronizing audio and video in a digital video recording (DVR) system, comprising:

a buffer for receiving a plurality of packets having data representing audio and video frames therein;

a processor for determining whether an occupancy criterion of the buffer storing said received audio and video frames has been met, wherein the processor obtains an initial time stamp value from an initial frame and from a subsequent frame, computes initial and subsequent parameters based on the respective initial and subsequent time stamp values, and determines whether the computed initial and subsequent parameters coincide if the occupancy criterion is met, and

a decoder for decoding audio and/or video frames for display if the parameters coincide.

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15. (Original) The apparatus of claim 14, wherein said initial and subsequent time stamp values are presentation time stamps of initial and subsequent video frames or presentation time stamps of initial and subsequent audio frames, each of the audio and video frames also including associated audio or video data.

16. (Original) The apparatus of claim 14, wherein said initial and subsequent parameters are difference values, each computed as a time difference between when the corresponding time stamp is received by the processor and a time where the processor accesses a time from a system timer.

17. (Original) The apparatus of claim 16, wherein the processor compares whether the difference value representing the subsequent frame,  $\Delta t_{new}$ , is equal to the difference value representing the initial frame,  $\Delta t_{old}$ , the coincidence between these difference values representing a valid time stamp of the subsequent frame.

18. (Original) The apparatus of claim 17, wherein the video frame is decoded for display when the timestamp is valid.

19. (Original) The apparatus of claim 14, wherein if the initial and subsequent parameters do not coincide, the processor performs a recovery process.

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20. (Original) The apparatus of claim 19, wherein if the initial and subsequent parameters do not coincide because a presentation time stamp of the initial frame is corrupted but corresponding video data of the frame is valid, or if a time base at which all presentation time stamps are obtained is changed, the video frame is decoded and displayed.

21. (Original) The apparatus of claim 19, wherein if the initial and subsequent parameters do not coincide because both a presentation time stamp and corresponding video data of the initial frame are corrupted, the most recent video frame processed is repeated.

22. (Original) The apparatus of claim 19, wherein the recovery process is performed up to T times, T being a selectable parameter, and wherein if T is exceeded, the recovery process is terminated.

23. (Original) The apparatus of claim 14, wherein if the frames are audio frames, parameters representing a computed time are compared to a system time in order to determine if an audio frame is repeated for processing, skipped for processing or decoded for display.

24. (Original) The apparatus of claim 23, wherein if computed time exceeds system time by a half of an audio frame time, the audio frame is repeated.

25. (Original) The apparatus of claim 23, wherein if computed time lags system time by a half of an audio frame time, the audio frame is skipped.

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26. (Original) The apparatus of claim 23, wherein if computed time exceeds system time by less than half of an audio frame time, or lags system time by less than half an audio frame, the audio frame is decoded for display.

27. (Original) A method of synchronizing audio and video frames, comprising:

(a) computing an initial parameter based on an initial video time stamp of an initial video frame;

(b) computing a subsequent parameter based on a subsequent video time stamp value of a subsequent video frame;

(c) comparing the computed parameters, a coincidence between the two indicating a valid subsequent video time stamp, and

(d) synchronizing an audio frame to the subsequent video frame based on the valid subsequent video time stamp.

28. (Original) The method of claim 27, further comprising repeating steps (b) through (d) for all subsequent video and/or audio frames.

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29. (Original) A processor for synchronizing audio and video frames, comprising:  
a buffer for receiving a plurality of packets having data representing audio and video  
frames therein; and

circuity for computing a initial parameter based on an initial time stamp value of an  
initial video frame, and for computing a subsequent parameter based on a subsequent time stamp  
value of a subsequent video frame,

wherein the circuitry determines whether the computed initial and subsequent parameters  
coincide, a coincidence between the two indicating a valid subsequent video time stamp, and

wherein the processor synchronizes an audio frame to the subsequent video frame based  
on the valid subsequent video time stamp.

30. (Original) The processor of claim 29, wherein an output of the processor contains  
corresponding audio and/or video frames for decoding and display.